

WHAT IS CLAIMED IS:

1. An e-commerce system, comprising:

a database server configured to store information relating to at least one of a plurality of dealing companies, orders placed by each of the plurality of dealing companies, products for sale, order errors, and order-available products for the respective dealing companies;

a web server, coupled to the database server, and configured to operate a web-site to receive order sheets on-line from the plurality of dealing companies for an on-line sale of the products for sale and to select the order-available products for corresponding ones of the plurality of dealing companies to display only the available products on an interface screen;

an information acquisition server, coupled to the database server and configured to acquire information about each of the plurality of dealing companies, and to register the acquired information on the database server; and

an order control server configured to gather information about items ordered through the web server and the respective order error items stored in the database server, and to determine whether the error of the corresponding order is correct, and to execute a selective order control in accordance with the determination.

2. The system of claim 1, further comprising an order confirmation server configured to execute a confirmation of product orders received from each of the plurality of dealing companies.

3. The system of claim 2, further comprising a divisional order processing server, configured to perform a scheduled order processing so that a product shipment amounting to a partial quantity of a total order quantity of the order-confirmed product is performed at prescribed times, and to register the items of the scheduled order processing to a temporary
5 order information storage unit.

4. The system of claim 3, wherein the temporary order storage unit comprises a prescribed information storing area allocated randomly to the database server.

5. The system of claim 1, further comprising a shipment confirmation server coupled to a warehouse network, and configured to manage each of a plurality warehouse storing products in stock so as to confirm a shipment of the corresponding order quantity of each of the orders, wherein the shipment confirmation server is configured to be controlled
5 in connection with the web server and database server respectively.

6. An e-commerce system, comprising:

a database server configured to store at least one of information relating to a plurality of dealing companies, information about products offered for sale, and information about order-available products for each of the plurality of dealing companies; and

5 a web server, coupled to the database server, and configured to operate a web-site for an on-line sale of the products offered for sale, and to select the order-available

products for each of the dealing companies so as to display only available items on an interface screen.

7. An e-commerce system, comprising:

a database server configured to store information about a plurality of dealing companies, credit information for each of the plurality of dealing companies, credit limit information for each of the plurality of dealing companies that is established by considering the credit information, information of sales products, and information of an order control for each situation; and

a web server coupled to the database server, and configured to operate a web-site to receive an on-line order for an on-line sale of each of the products within a credit limit of each of the plurality of dealing companies.

8. The system of claim 7, further comprising a credit information management server configured to determine a purchase expense of a specific dealing company submitting an order through the web site, determining whether to approve the corresponding order by comparing the purchase expense to the credit limit given to the corresponding dealing company, and managing variations of the credit limits of the respective dealing companies.

9. The e-commerce of claim 8, further comprising a grade allotment server configured to acquire information relating to the respective dealing companies and allot

grades as references to give the credit limit of the respective dealing companies on the basis of the acquired information.

10. An e-commerce system, comprising:

a database server configured to store information about a plurality of dealing companies, credit information for each of the plurality of dealing companies, and order restriction information of a plurality of products; and

5 a web server, coupled to the database server, and configured to operate a web site to receive on-line orders for an on-line sale of each of the plurality of products, acquire information about the respective products and dealing companies and registering the acquired information to the database server, and perform order control for order-generating dealing companies, when an order for a product purchase is generated from the
10 corresponding dealing companies.

11. The e-commerce system of claim 10, further comprising an order control set-up server coupled to the database server and web server, and configured to restrict prescribed orders for each of the dealing companies in accordance with the information about the products registered in the database server and information about the respective
5 dealing companies.

12. The system of claim 10, wherein the order restriction information includes at least one of amounts in stock by the respective models of sales products, sale or

sale-suspension of the respective models of the sales products, out-of-production or production of the respective models of the sales products.

13. An e-commerce system, comprising:

a database server configured to store information relating to a plurality of dealing companies, information about respective sales products, information about respective order errors, and item information of respective confirmed orders;

5 a web server configured to operate a web-site to receive orders for on-line sales of the respective sales products from the plurality of dealing companies;

an error processing server configured to identify errors in order information of the respective sales products received through the web site operated by the web server; and

10 an order confirmation server configured to confirm orders having no error and orders for which an error has been cured.

14. The system of claim 13, further comprising a divisional order processing server configured to process each scheduled order to perform a partial product shipment at prescribed times, the partial product shipment amounting to shipment of a partial quantity of an entire order quantity of the confirmed order, and to register to a temporary order storage
5 unit the items of the scheduled order having been processed, wherein the divisional order processing server is coupled to the web server, the database server, and a warehouse network configured to manage a warehouse.

15. The system of claim 14, wherein the temporary order information storage unit is an information storage area randomly allocated in the database server.

16. The system of claim 13, further comprising a shipment confirmation server coupled to each of at least one warehouse network and configured to confirm whether a corresponding order quantity of the confirmed orders has been shipped, wherein the shipment confirmation server is controlled in connection with the web server and database server respectively, and wherein each of the warehouse networks is configured to manage a corresponding off-line warehouse storing products in stock.

17. A method of operating an e-commerce system, comprising:

- checking order restriction information for a dealing company from a database server when an on-line connection is made from the respective dealing company;
- classifying products into order-available products and order-unavailable products on the basis of the order restriction information;
- displaying a list of the order-available products and information about the corresponding products on a web page;
- yielding an expense of an ordered product when an order for a product in the displayed order-available products is received;
- determining whether the yielded expense exceeds a credit limit of the dealing company, and determining whether the received purchase order items are restricted from

purchase for the dealing company, and whether the received purchase order items are order error items; and

confirming an order on the corresponding purchase order items if the credit
15 limit is not exceed, the order items are not restricted, and the order items are not order error items.

18. The method of claim 17, further comprising:

reporting that the yielded expense exceeds the credit limit if the yielded
expense exceeds the credit limit assigned to the dealing company and requesting a
readjustment of the order; and

deducting the expense from the credit limit and readjusting the credit limit into
a remaining credit amount of the dealing company if the yielded expense does not exceed the
credit limit assigned to the dealing company.

19. The method of claim 17, wherein the credit limit of the dealing company is
established by checking a credit grade of the dealing company when a membership
registration is received from the dealing company, generating an order-available credit limit
based on the credit grade and a size of the dealing company, and storing information about
5 the order-available credit limit and other information of the dealing company in the database
server.

20. The method of claim 19, wherein the credit grade of the dealing company is established using at least one of grade information attained by having the dealing company evaluated by a banking or credit corporation, general credit information about the dealing company evaluated by different companies, and historic information based on previous transactions with the dealing company.

21. The method of claim 17, further comprising:
checking at least one of previous transaction items, credit degree in accordance with a trade, and overall creditworthiness of the dealing company;
establishing different credit grades for each of a plurality of dealing companies through the above checking; and
increasing or decreasing the credit limit of each of the dealing companies in accordance with the established credit grades.

22. The method of claim 17, further comprising:
receiving a request to increase the credit limit from the dealing company;
rechecking an entire credit grade of the dealing company when the request is received;
confirming the credit limit provided in accordance with the checked credit grade; and
one of reporting a rejection against the request if the requested credit limit increase from the dealing company is larger than the checked credit limit amount by a

prescribed amount and reporting an allowance for the request and readjusting the credit limit
10 of the corresponding dealing company if the requested credit limit increase is within an
allowable range.

23. The method of claim 22, wherein the requested credit limit increase is within
the allowable range if it is less than or equal to the existing credit limit.

24. The method of claim 17, further comprising re-adjusting a remaining credit
limit to the initially allotted credit limit for the dealing company if a substantial payment is
made for products purchased within the credit limit within prescribed time period.

25. The method of claim 17, further comprising displaying the credit limit of the
dealing company on a corresponding web page when a trade order is requested on-line by the
dealing company and, if the dealing company selects a purchase of a specific product,
reducing the displayed credit limit in accordance with a purchase expense of the specified
5 product in-real time.

26. The method of claim 17, wherein purchase order items are determined to be
restricted if the received purchase order items are indicated to be restricted in the database
server, and wherein an order is confirmed only if the item is not restricted.

27. The method of claim 26, wherein items can be restricted on a general basis to all dealing companies, or can be restricted only for prescribed dealing companies.

28. The method of claim 27, wherein a general basis restriction occurs when at least one of a quantity of stock of the corresponding item is insufficient, sales of the corresponding item have ceased, the corresponding item is no longer manufactured, and a quantity of the purchase order is less than a minimum order-available quantity of the corresponding item.

29. The method of claim 27, wherein order restriction for prescribed dealing companies occurs when at least one of the prescribed dealing company goes out of business, the prescribed dealing company becomes insolvent, the prescribed dealing company engages in illegal activity, the prescribed dealing company is in arrears, and the prescribed dealing company has an excess quantity of ordered items compared to a credit of the corresponding dealing company.

30. The method of claim 26, wherein when a prescribed product is to be shipped on a confirmed order, further comprising:

searching information of the corresponding product from the database server;

and

temporarily suspending the shipment of the corresponding product if an error corresponding to prescribed error conditions for the corresponding product is determined.

confirming the order sheet for the corresponding order by generating an order sheet for a divisional shipment for each of the confirmed possible shipment dates.

34. The method of claim 33, wherein the generation and confirmation of the order sheets for the shipment on each of the possible shipment dates is performed by confirming the order sheet for an entire quantity of the products initially ordered, and generating order sheets for the respective product quantities to be shipped by the respective possible shipment
5 dates.

35. The method of claim 34, further comprising:
generating divisional worksheets in accordance with respective scheduled
shipment quantities;

confirming the respective generated divisional order sheets;

5 storing the confirmed divisional worksheets in a temporary order storage unit;

and

when a product is shipped for a given one of the stored divisional order sheets,
deleting information of the corresponding divisional order sheet from the temporary order
storage unit.

36. The method of claim 33, further comprising transmitting an opinion about the
divisional shipments to a corresponding dealing company to request an agreement with the
corresponding dealing company having placed the order for which full shipment is not

possible, wherein the opinion and request are transmitted when the order sheets for the
5 divisional shipments on the respective possible shipment dates are generated, and wherein
the agreement is to allow the shipment on a date other than the requested date.

37. The method of claim 36, wherein if the agreement on the divisional shipments
is not accepted by the dealing company, further comprising:

re-checking the possible shipment dates; and

one of confirming the order of the corresponding product if it is determined
5 that the shipment is possible on the requested delivery date, delaying the delivery date by
having a conference with the dealing company, and canceling the order if the shipment is not
possible on the requested delivery date.

38. The method of claim 32, wherein the order error items include at least one of
products which fail to exist on a sales list, products ordered by a dealing company that is not
authorized, products for which a price and quantity differ from a prescribed minimum price
and quantity, and products for which a quantity of the available product in stock is less than
5 the amount ordered.

39. The method of claim 38, wherein the order error items are reported to the
dealing company having placed the corresponding order sheet and the web site that receives
the respective order sheets.

40. The method of claim 32, wherein when the corresponding products for the confirmed order are to be shipped, further comprising:

searching prescribed information items for the products to be shipped from the database server; and

5 when a prescribed error condition exists in the information items corresponding to the product to be shipped, temporarily suspending the shipment of the corresponding product until the error is resolved.

41. The method of claim 40, wherein the prescribed error condition includes at least one of an item on the corresponding product is different from the ordered item, the dealing company having placed the order is registered on a blacklist, a redemption registered to a computer by a prior contract of the dealing company is different from an actual condition of redemption, an arrearage of payments in previous transactions is outstanding for the dealing company, a shipment quantity and price are different from a previously prescribed minimum option, a quantity of the product in stock varies, and items of the order sheet are changed.

42. A method of operating an e-commerce system, comprising:

checking order restriction information for a dealing company from a database server when an on-line connection is made from the dealing company;

classifying sales products into order-available and order-unavailable products

5 based on order restriction information; and

displaying a list of the order-available products and information about the corresponding products on a web page.

43. The method of claim 42, wherein the order-available products are ordered online from the displayed web page.

44. A method of operating an e-commerce system, comprising:
receiving an online order for a product from a dealing company;
yielding a sales expense of the ordered product in accordance with product pricing information;

determining whether the yielded expense exceeds a credit limit allocated to the dealing company;

if the yielded expense exceeds the credit limit allocated to the dealing company, reporting that the yielded expense exceeds the credit limit amount so as to request a readjustment of the order from the dealing company; and

if the yielded expense does not exceed the allocated credit limit, deducting the expense from the credit limit allocated to the dealing company so as to reduce the credit limit for the dealing company.

45. The method of claim 44, wherein the credit limit for the dealing company is established by a determining a credit grade of the dealing company when a membership registration is received from the dealing company, calculating an order-available credit limit

amount for the dealing company in accordance with the credit grade and a size of the dealing
5 company, and storing information about the order-available credit limit for the dealing
company database server.

46. The method of claim 45, wherein the credit grade is established using at least
one grade information obtained by having the dealing company evaluated by a banking or
credit corporation, general credit information regarding the dealing company, and historic
information corresponding to a previous transaction record for the dealing company.

47. The method of claim 44, further comprising:
periodically checking at least one of previous transaction items of the dealing
company, a credit degree in accordance with a trade, and other information relating to a
creditworthiness of the dealing company;

5 allocating a credit grade based on the results of the periodic checking; and
increasing or decreasing the credit limit for the dealing company in accordance
with the allocated credit grade.

48. The method of claim 44, further comprising:
receiving a request to increase the credit limit from the dealing company;
re-checking an entire credit grade of the dealing company when the request is
received;

5 checking a basic credit limit provided in accordance with the credit grade;

rejecting the request if the requested credit increase exceeds the checked credit limit by a prescribed amount; and

approving the request and re-adjusting the credit limit of the dealing company to the requested amount if the requested credit limit is within a prescribed range.

49. The method of claim 48, wherein the request is allowed if the requested credit limit is approximately the same as the checked credit limit.

50. The method of claim 44, further comprising re-adjusting information of a remaining credit limit to the initially established credit limit if a substantial payment is made for products purchased within the credit limit within a prescribed period of time after a purchase.

51. The method of claim 44, further comprising displaying the credit limit of the dealing company on the corresponding web page when a trade order is requested on-line by the dealing company, and if the dealing company selects a purchase of a specific product, balancing the display credit limit amount and a purchase expense of the specific product in
5 real-time.

52. A method of operating an e-commerce system, comprising:
receiving on-line orders for product purchases from at least one dealing company through a prescribed web-site;

comparing products for which orders are received online to prescribed order
5 restriction items to determine if an ordered product is a restricted product;
one of restricting the corresponding order if the ordered product is restricted
and confirming the order if the ordered product is not restricted.

53. The method of claim 52, wherein the prescribed order restriction items include
product restricted items that are restricted to all dealing companies and dealing company
restricted items that are restricted from order only to prescribed dealing companies.

54. The method of claim 53, wherein the product restricted items include products
for which a corresponding stock quantity is low, products for which sales have ceased,
products which are no longer manufactured, and products for which a quantity of the
purchase order is less than a minimum order-available quantity.

55. The method of claim 53, wherein the dealing company restricted items include
items ordered by a dealing company where at least one of the dealing company goes out of
business, becomes insolvent, engages in illegal activities, is in arrears with respect to an earlier
purchase order, and is maintaining an excessive order quantity compared to an available
5 credit of the dealing company.

56. The method of claim 52, wherein when a shipment of the corresponding
product is to be performed for the confirmed order, further comprising:

searching information on various items for the shipment product from a database server; and

- 5 when an error corresponding to prescribed error conditions is found to exist based on the search, temporarily suspending the shipment of the corresponding product until the error is resolved.

57. The method of claim 56, wherein the prescribed error conditions comprise at least one of a difference is detected between an item of the corresponding product and the ordered item, the dealing company placing the order is registered on a blacklist, a condition of redemption registered to a computer by a prior contract of the dealing company is different from an actual condition of redemption, an arrearage of payments in a previous transaction exists, a shipment quantity and price are different from a prescribed minimum option, a quantity of the product in stock varies, and a change has been made to at least one item of the order sheet.

58. A method of operating an e-commerce system, comprising:
- receiving on-line orders for product purchases from at least one dealing company through a prescribed web-site;
- determining whether each item ordered belongs to a group of prescribed error
- 5 items;
- temporarily suspending subsequent operations for items determined to belong to the group of prescribed error items;

10 and

reporting the ordering of items that are determined to belong to the group of prescribed error items and continuously checking to determine if the error has been resolved;

confirming an order sheet for each of items ordered that are not in the group of prescribed error items and items for which the error has been corrected.

59. The method of claim 58, wherein confirming the order sheet comprises:
determining whether a shipment is possible on a requested date for an ordered quantity of a product;

if it is determined that the shipment is not possible, determining a shipment-available date for each quantity of the corresponding product; and

confirming the order sheet for the corresponding order by generating an order sheet for a divisional shipment for each of the confirmed shipment-available dates.

60. The method of claim 59, wherein the generation and confirmation of the order sheet for the shipment on each of the shipment-available dates is performed by confirming the order sheet for an entire quantity of the initially ordered products, and generating order sheets for the respective product quantities to be shipped by the respective
5 shipment-available dates.

61. The method of claim 60, further comprising:

generating divisional order sheets in accordance with respective scheduled shipment quantities;

confirming the respective generated divisional order sheets;

5 storing the confirmed respective divisional order sheets in a temporary order storage unit; and

deleting information of the corresponding divisional order sheets from the temporary order storage unit when the corresponding product is shipped.

62. The method of claim 59, further comprising seeking an agreement regarding the divisional shipment and the respective shipment-available dates with the dealing company having placed the order by transmitting an opinion about the divisional shipments to the dealing company when the order sheets for the divisional shipments are generated.

63. The method of claim 62, wherein if the agreement regarding the divisional shipment is not accepted by the dealing company, further comprising:

re-checking the shipment-available dates for the corresponding products; and

one of confirming the order of the corresponding product if it is determined

5 that the shipment is possible within the requested delivery date, delaying the delivery date by having a conference with a corresponding dealing company, and canceling the order if it is determined that the shipment is impossible by the requested delivery date.

64. The method of claim 58, wherein the prescribed order error items include at least one of items for which the ordered product fails to exist on a sales list, the dealing company that placed the order is not authorized, a price and quantity of the ordered product differ from a previously established minimum price and quantity, and a quantity of the available products in stock is less than an amount ordered.

65. The method of claim 64, wherein the order error items are reported by the dealing company having placed the corresponding order sheet and the web site that receives the respective order sheets.

66. The method of claim 58, wherein when the shipment of the corresponding product for the confirmed order is to be carried out, further comprising:

searching prescribed information items from a database server for the corresponding product to be shipped; and

when an error corresponding to prescribed order error items exists in the information items of the corresponding product to be shipped, temporarily suspending the shipment of the corresponding product until the error is corrected.

67. The method of claim 66, wherein the prescribed error items for the shipment product include at least one of an item of the corresponding product is different from the ordered item, the dealing company placing the order is registered on a blacklist, a condition of redemption registered by a prior contract of the dealing company is different from an

- 5 actual condition of redemption, the dealing company is in arrears on payments in previous transaction, a shipment quantity and price are different from a prescribed minimum option, a quantity of the product in stock varies, and at least one item on the order sheet has been changed.